

## Literature search strategies

### *PubMed: main search*

Search no.	Keywords
1	randomi* controlled trial* OR RCT* OR non-randomi* controlled trial* OR clinical monitor* OR controlled clinical trial* OR case series OR case report* OR open stud* OR adverse drug reaction* OR drug interact*
2	azathioprin* OR 6-mercaptopurin* OR thiopurin* OR aza OR 6-MP OR thioguanin*
3	skin disease* OR dermatology
4	1 AND 2 AND 3
5	therap* drug monitor*
6	2 AND 5
7	TPMT OR "thiopurine methyltransferase"
8	2 AND 7
9	7 AND dose [Limit: 1990-present]
10	bullous OR sarcoid* OR vasculitis OR hand eczema OR systemic scleros* OR connective tissue disease* OR neutrophilic dermatos* OR hepatitis
11	2 AND 10
12	monotherapy OR steroid spar* OR adjunct* OR hepatotoxic* OR hypersensitiv* OR myelosuppress* OR haematolog* OR bone marrow toxic* OR inflammator*
13	2 AND 12
14	internal malignan*
15	2 AND 14
16	4 OR 6 OR 8 OR 9 OR 11 OR 13 OR 15
17	Limit 16 to (English language and humans)

### *MEDLINE (Dialog DataStar): main search*

Search no.	Keywords
1	randomi\$3 control\$3 trial\$1 OR RCT\$1 OR non-randomi\$3 control\$3 trial\$1 OR control\$3 clinical trial\$1 OR clinical monitor\$3 OR case series OR case report\$1 OR open stud\$3 OR adverse drug reaction\$1 OR drug interact\$4
2	azathioprin\$ OR 6-mercaptopurin\$ OR thiopurin\$ OR aza OR 6-MP OR thioguanin\$
3	skin disease\$1 OR dermatology
4	1 AND 2 AND 3
5	therap\$5 drug monitor\$3
6	2 AND 5
7	TPMT OR thiopurine methyltransferase

8	2 AND 7
9	7 AND dose [Limit: 1990-present]
10	bullous OR sarcoid\$ OR vasculitis OR hand eczema OR systemic scleros\$ OR connective tissue disease\$1 OR neutrophilic dermatos\$ OR hepatitis
11	2 AND 10
12	monotherapy OR steroid spar\$3 OR adjunct\$ OR hepatotoxic\$ OR hypersensitiv\$ OR myelosuppress\$ OR haematolog\$ OR bone marrow toxic\$3 OR inflammator\$
13	2 AND 12
14	internal malignan\$
15	2 AND 14
16	4 OR 6 OR 8 OR 9 OR 11 OR 13 OR 15
17	Limit 16 to (English language and humans)

*EMBASE (Dialog DataStar): dermatology search*

Search no.	Keywords
1	randomi\$3 control\$3 trial\$1 OR RCT\$1 OR non-randomi\$3 control\$3 trial\$1 OR control\$3 clinical trial\$1 OR clinical monitor\$3 OR case series OR case report\$1 OR open stud\$3 OR adverse drug reaction\$1 OR drug interact\$4
2	azathioprin\$ OR 6-mercaptopurin\$ OR thiopurin\$ OR aza OR 6-MP OR thioguanin\$
3	skin disease\$1 OR dermatology
4	1 AND 2 AND 3
5	therap\$5 drug monitor\$3
6	4 AND 5
7	TPMT OR thiopurine methyltransferase
8	4 AND 7
9	7 AND dose [Limit: 1990-present]
10	bullous OR sarcoid\$ OR vasculitis OR hand eczema OR systemic scleros\$ OR connective tissue disease\$1 OR neutrophilic dermatos\$ OR hepatitis
11	4 AND 10
12	monotherapy OR steroid spar\$3 OR adjunct\$ OR hepatotoxic\$ OR hypersensitiv\$ OR myelosuppress\$ OR haematolog\$ OR bone marrow toxic\$3 OR inflammator\$
13	4 AND 12
14	internal malignan\$
15	4 AND 14
16	6 OR 8 OR 9 OR 11 OR 13 OR 15
17	Limit 16 to (English language and humans)

*EMBASE (Dialog DataStar): gastroenterology check*

Search no.	Keywords
1	randomi\$3 control\$3 trial\$1 OR RCT\$1 OR non-randomi\$3 control\$3 trial\$1 OR control\$3 clinical trial\$1 OR clinical monitor\$3 OR case series OR case report\$1 OR open stud\$3 OR adverse drug reaction\$1 OR drug interact\$4
2	azathioprin\$ OR 6-mercaptopurin\$ OR thiopurin\$ OR aza OR 6-MP OR thioguanin\$
3	1 AND 2
4	gastroentero\$4
5	3 AND 4

*EMBASE (Dialog DataStar): thiopurine metabolising enzymes search*

Search no.	Keywords
1	azathioprin\$ OR 6-mercaptopurin\$ OR thiopurin\$ OR aza OR 6-MP OR thioguanin\$
2	GSTMI OR GSTM OR ITPA OR IMPD OR HPRT OR MTFHR
3	1 AND 2